Altronix®

T1MT4K1 (Kit)
Access and Power Integration Solution for Mercury

TROVE™

Altronix T1MT4K1 is a 4-door access and power integration kit which includes Altronix PoE-driven power supply/charger, eight (8) fuse protected output dual voltage access control module and eight (8) fuse protected output dual voltage power distribution module. Also included is a NetWay1BT midspan injector (boxed separately). This kit also accommodates various combinations of Mercury* boards for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

*Also compatible with these authentic Mercury partners:
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt

Mercury™

T1MT4K1

Mercury modules are not included

Key Features

- 12VDC or 24VDC PoE-driven power supply/charger
- Accommodates the following Mercury controllers:
  Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8
- Convenient knockout configuration:
  - One (1) double knockout
    1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit)
  - Nine (9) double knockouts
    1.362" (1" Conduit) / 1.115" (3/4" Conduit)

- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates batteries
- Supervision:
  - PoE Loss
  - Low Battery and Battery Presence
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Chargers and Sub-Assemblies only

Accessories (order separately)

WM5

WM5, WM25, WM100 - Magnetic Cable Tie Mounts
Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively.
They accommodate standard zip ties or velcro straps.
These are ideal for wire management in our Trove series.

Mounting Magnet

MM4, MM8, MM12, MM24 - Magnetic Mounting Solution
Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/accessories in any metal enclosure or backplane.

Specifications

PoE Driven Power Supply/Charger (Tango1B):

Ethernet Input
802.3bt PoE up to 90W (or 802.3at up to 30W or 802.3af up to 15W)

Power Output (when using 802.3bt 90W)
12VDC up to 5.4A (65W) and/or 24VDC up to 2.7A (65W)
Combined output not to exceed 65W
When charging batteries:
12VDC up to 4.6A (55W) and/or 24VDC up to 2.3A (55W)
Combined output not to exceed 55W

Ethernet Output
Pass-through Ethernet Port (data only)

Battery Charging Circuit
Automatically adjusts between Lead Acid and
Lithium Iron Phosphate (LiFePO$_4$) batteries
Unique technology allows for single battery to backup
12VDC and/or 24VDC systems

Supervision
Loss of PoE Input
Battery Supervision

Indicators (LED)

Input	Indicates input voltage is present
Output	Indicates normal operating condition
PoE Type	PoE Class Indicator
Supervision	PoE Fail or BAT Fail

Single Port 802.3bt Midspan Injector (NetWay1BT):

Input

Voltage	115VAC, 60Hz, 1.2A or
	230VAC, 50/60Hz, 0.75A

Power Output
IEEE802.3bt compliant
Unit provides PoE / PoE+ / Hi-PoE
90W full power

Ethernet
Connectivity: RJ45, auto-crossover
Wire type: 4-pair CAT5e or better structured cable
Distance: up to 100m
Speed: 10/100/1000 BaseT, half/full duplex, auto negotiation

Indicators (LED)

Red LED:	PoE ON
Red LED:	Power ON
Yellow and Green	
LED (by RJ45 jack):	IP Link status, 10/100Base-T/active

Dual Input Access Power Controller (ACMS8):

Input

Voltage	12 and 24VDC from Tango1B
Input Fuses	15A/32V

Outputs

Voltage	12VDC and/or 24VDC

Eight (8) independently controlled fused outputs
a) Fail-Safe and/or Fail-Secure power outputs
Form "C" Relays rated 28VAC or VDC @ 2.5A
b) Auxiliary power outputs (unswitched)
c) Any combination of the above

Output Fuses	3A/32V

Indicators (LED)

Red LEDs	Outputs are triggered (relays energized)
Green LED	FACP disconnect is triggered

Dual Input Power Distribution Module (PDS8):

Input

Voltage	12 and 24VDC from Tango1B
Input Fuses	10A/32V

Outputs

Voltage	12VDC and/or 24VDC

Any of the eight (8) power outputs are selectable
to follow power Input 1 or Input 2
Individual outputs may be set to OFF position for servicing

Output Fuses	3A/32V

Indicators (LED)

DC Output	Eight (8) individual output LEDs
Green:	12VDC
Red:	24VDC

T1MT4K1 Kit:

Agency Listings

CE	European Conformity

Physical and Environmental
Dimensions (H x W x D)
Enclosure: 18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm)
Shipping: 21.75" x 18.25" x 5.75" (552.5mm x 463.6mm x 146.1mm)
Weight (approx.)

Product	18.0 lb. (8.17 kg)
Shipping	22.0 lb. (9.98 kg)

Temperature

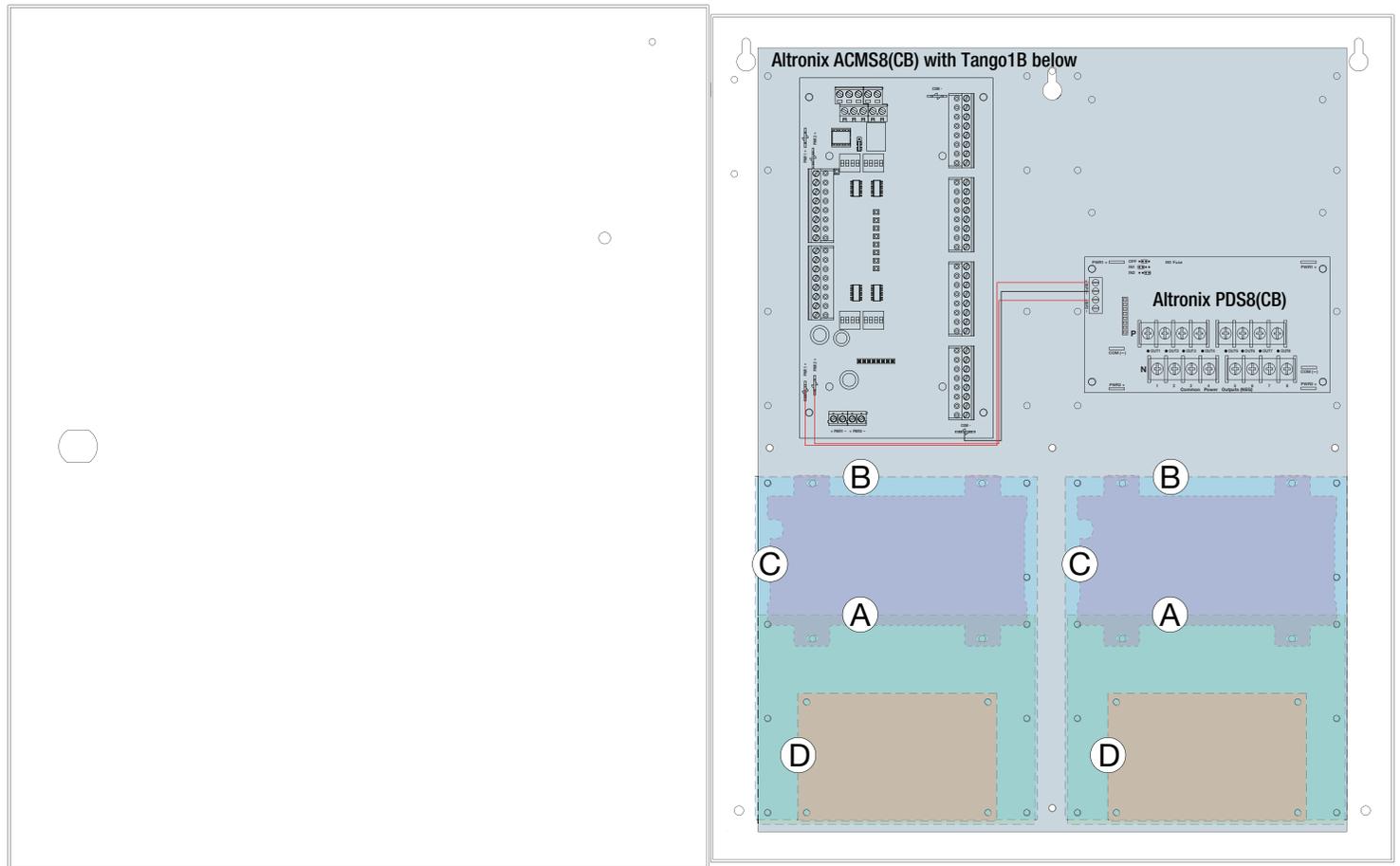|	
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr (approx.):	90 BTU/Hr.

Access Controller Position Chart for the Following Models:

Altronix/Mercury	Pem Mounting
LP2500, MUX8	Ⓐ
LP1502, LP4502, MR52, MR16IN, MR16OUT	Ⓑ
LP1501, MR62e	Ⓒ
MR50	Ⓓ

Altronix ACMS8(CB) with Tango1B below

Altronix PDS8(CB)

Dimensions and Drawing

Dimensions (H x W x D approximate)
18.0" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.5mm)

14.5" (321.3mm)
7.25" (184.2mm)
1.45" (36.8mm)
Ø1.95" (49.5mm)

4.5" (114.3mm)
1.25" (31.8mm)
1.5" (38.1mm)
0.57" (14.5mm)
8.5" (215.9mm)
6.5" (165.1mm)

13.0" (330.2mm)
0.6" (15.2mm)
18.0" (457.2mm)
0.6" (15.2mm)
1.1" (27.9mm)

1.25" (31.8mm)
1.5" (38.1mm)
8.5" (215.9mm)
6.5" (165.1mm)

4.5" (114.3mm)
4.5" (114.3mm)
2.75" (69.9mm)
Ø1.115" (28.3mm)
1.36" (34.5mm)
1.25" (31.8mm)